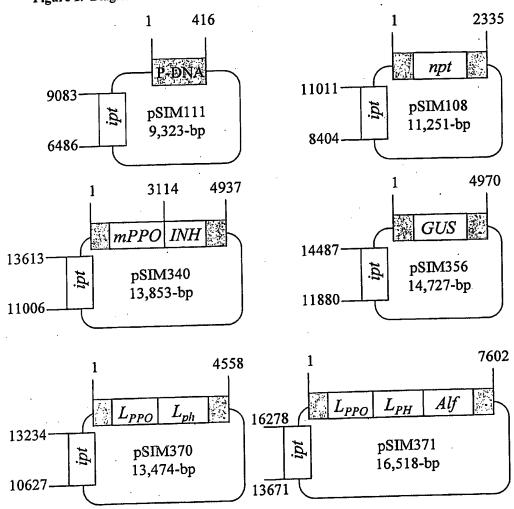
FIGURES

Figure 1. Diagrams for some P-DNA vectors



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Figure 2. Alignment of potato and tobacco invertase inhibitor proteins

A.		
St-inhl Nt-inhh	MRNLFPILMLITNLALNNDNNNNNNNNNNNNYNLIHATCRETPYYSLCLTTLQSGPRSNEVE MRNLFPIFMLITNLAFN-DNNNSNNIINTTCRATTNYPLCLTTLHSDPRTSEAE ******:*****************************	
St-inhl Nt-inhh	GGDAITTLGLIMVDAVKSKSIEIMEKIKELEKSNPEWRAPLSQCYVAYNAVLRADVTVAV GAD-LTTLGLVMVDAVKLKSIEIMKSIKKLEKSNPELRLPLSQCYIVYYAVLHADVTVAV *.* :***** ****** ******* * ******* * ******	
St-inh1 Nt-inhh	EALKKGAPKFAEDGMDDVVAEAQTCEYSFNYYNKLDFPISNLSREIIELSKVAKSIIRML EALKRGVPKFAENGMVDVAVEAETCEFSFK-YNGLVSPVSDMNKEIIELSSVAKSIIRML ****: *. * * * * * * * * * * * * * * * *	180 171
St-inhl Nt-inhh	L 181 L 172	
В.		
St-inhl Nt-inhl	MRNLFPILMLITNLALNNDNNNNNNNNNNNYNLIHATCRETPYYSLCLTTLQSGPRSNEVE MKNLIFLTMFLTILLQTNANNLVETTCKNTPNYQLCLKTLLSDKRSAT *:**: : *:: * .* * * * * :.:**:: * .***.** * . **	60 48
St-inhl Nt-inhl	GGDAITTLGLIMVDAVKSKSIEIMEKIKELEKSNPEWRAPLSQCYVAYNAVLRADVTV GDITTLALIMVDAIKAKANQAAVTISKLRHSNPPAAWKGPLKNCAFSYKVILTASLPE * **********: : .*.:*.:** *:.**.:* .:*:.:* *.:.	118 106
St-inhl Nt-inhl	AVEALKKGAPKFAEDGMDDVVAEAQTCEYSFNYYNKLDFPISNLSREIIELSKVAKSIIR AIEALTKGDPKFAEDGMVGSSGDAQECEEYFKGSKSPFSALNIAVHELSDVGRAIVR *:*** ** ******** .:** ** :*: .*: *: *: *:* :*::*:	178 163
St-inhl Nt-inhl	MLL 181 NLL 166	

Figure 3. Gene-free expression cassettes

 Piomoter	SOI sense	⊹Spacer _{[2}	SOI	Terminator	
第八人家的	sense		anti-sense	公里的人的	

Promoter	SO#	Spacer	Total size
P:GBSS-small	Leader a/w** R1	Ubi intron	1729-bp
P:GBSS-small	Leader a/wR1	GBSS spacer	1397-bp
P:GBSS-large	Leader a/wR1	Ubi intron	2005-bp
P:GBSS-large	Leader a/wR1	GBSS spacer	1397-bp
P:GBSS-small	Trailer a/wR1	GBSS spacer	2042-bp
P:GBSS-small	Trailer a/wR1	Ubi intron	1705-bp
P:GBSS-large	Trailer a/wR1	GBSS spacer	2313-bp
P:GBSS-large	Trailer a/wR1	Ubi intron	1981-bp
P:GBSS-small	Leader a/wPhosph	GBSS spacer	-
P:GBSS-small	Leader a/wPhosph	Ubi intron	.
P:GBSS-large	Leader a/wPhosph.	GBSS spacer	1852-bp
P:GBSS-large	Leader a/wPhosph	Ubi intron	2184-bp
P:GBSS-large	Leader a/wPPO	Ubi intron	1958-bp
P:GBSS-large	Leader a/wPPO	GBSS spacer	1626-bp
P:GBSS-small	Leader a/wPPO	Ubi intron	-
P:GBSS-small	Leader a/wPPO	GBSS spacer	-

^{*:} sequence-of-interest; **: "associated with"

Figure 4. Alignment of the 3'-end of tuber-expressed PPO genes and trailers associated with these genes. Stop codons ('TAA') are underlined. The trailer sequence used for genetic modification of potato plants was isolated from 'P-PPO3', and is downstream from the stop codon (TTAGTC...ACAATT).

P-PPO3 PPOM-41 PPOM-44	CTGGCGATAACGGAACTGTTGGAGGATATTGGTTTGGAAGATGAAGATACTATTGCGGTG CTGGCGATAACGGAACTGTTGGAGGATATTGGATTGG	60 60 60
P-PPO3 PPOM-41 PPOM-44	ACTCTGGTGCCAAAGAGAGGTGGTGAAGGTATCTCCATTGAAAGTGCGACGATCAGTCTT ACTTTGGTTCCAAAAGTAGGTGGTGAAGGTGTATCCATTGAAAGTGTGGAGATCAAGCTT ACTTTGGTTCCAAAAGTTGGTGGTGAAGGTGTATCCATTGAAAGTGCGGAGATCAAGCTT	120
P-PPO3 PPOM-41 PPOM-44	GCAGATTGT <u>TAA</u> TTAGTCTCTA-TTGA-ATCTGCTGAGATTACAC-TTTGATGGAT GAGGATTGT <u>TAA</u> GTCCTCATGAGTTGGTGGCTACGGTACCAAATTTTATGTTTAATTAGT GAGGATTGT <u>TAA</u> GTCCTCATGAGTTGGTGGCTATGGTACCAAATTNTATGTTTAATTAGT	100
P-PPO3 PPOM-41 PPOM-44	GATGCTCTGTTTTTGTTTCTTGTTCTGTTTTTTCCTC-TGTTGAAATCAGCTTTGTT ATTAATGTGTGTATGTGTTTGATTATGTTTCGGTTAAAATGTATCAGCTGGATAGCTGAT ATTAATGTGTGTGTTTGATTATGTTTCGGTTAAAATGTATCANCTGGATAGCTGAT	240
PPPO3 PPOM-41 PPOM-44		277 300 296

Figure 5. Diagrams for some LifeSupport vectors

